## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2005/002588

	CATION OF SUBJECT MATTER  F16C19/18, C10M129/40, 129/4  137/02, 169/04, F16C33/66, I		
According to In	nternational Patent Classification (IPC) or to both nation	nal classification and IPC	
B. FIELDS SI	EARCHED		
Minimum docu Int . Cl	mentation searched (classification system followed by 6.7 F16C19/00-19/56, F16C33/30-3 //C10N20:02, 30:12, 40:02	classification symbols) 33/66, C10M101/00-177/00	, F16H57/02
Jitsuyo		ent that such documents are included in th itsuyo Shinan Toroku Koho oroku Jitsuyo Shinan Koho	e fields searched 1996-2005 1994-2005
	base consulted during the international search (name of	data base and, where practicable, search to	erms used)
C. DOCUMEN	NTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where a	· · · · · · · · · · · · · · · · · · ·	Relevant to claim No.
Y	JP 2003-314541 A (Koyo Seiko 06 November, 2003 (06.11.03) Par. Nos. [0001], [0011] to Figs. 1 to 5 & WO 2003/089798 A1	,	1-12
У	Eiichi WATABAYASHI, Shigeru ONO, Yoshiaki 1- MATSUMOTO, Jun'ichi OKADA, "JIS Tsukaikata Series Korogari Jikuuke no Erabikata, Tsukaikata", Ol December, 1976 (01.12.76), pages 212 to 213		1-12
Y	The Toyo Bearing Mfg. Co., Lt Catalog No. 600, 1960, page 8 line 1 to page 91, right colu	39, left column,	1-12
,			
Further documents are listed in the continuation of Box C.		See patent family annex.	
'A' document defining the general state of the art which is not considered to be of particular relevance		"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention	
E earlier application or patent but published on or after the international filing date  L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  O document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the		"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive	
		"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art	
priority date	ciaimed	"&" document member of the same patent fa	пизу
Date of the actual completion of the international search 11 May, 2005 (11.05.05)		Date of mailing of the international search report 31 May, 2005 (31.05.05)	
Name and mailing address of the ISA/ Japanese Patent Office		Authorized officer	

Telephone No.

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International application No.
PCT/JP2005/002588

		PCT/JP2	2005/002588
C (Continuation	n). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant pa	ssages	Relevant to claim No
Y	JP 2003-176832 A (NSK Ltd.), 27 June, 2003 (27.06.03), Par. Nos. [0002] to [0006] (Family: none)		1-12
A	JP 2004-43718 A (NSK Ltd.), 12 February, 2004 (12.02.04), Claims 1, 9; Par. No. [0036] (Family: none)		1-12
<b>A</b> :	JP 11-201172 A (NTN Corp.), 27 July, 1999 (27.07.99), Claims 1, 5; Par. Nos. [0015] to [0018]; Figs 8 to 10	<b>3</b> .	1-12
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